

**Total Intended Award Amount:** \$450,000  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$81,885  
**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

<b>Fiscal Year</b>	<b>Increment Amount</b>
2025	\$87,458
2026	\$90,762
2027	\$94,202
2028	\$95,693

## PROJECT PERSONNEL

**Principal Investigator:**

[REDACTED]

**Email:**

[REDACTED]

**Organization:**

PRESIDENT AND  
FELLOWS OF HARVARD  
COLLEGE

## NSF CONTACT INFORMATION

**Managing Grants Official**

(Primary Contact)

**Name:** Lynda Kummelt

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**Awarding Official**

**Name:** Lynda Kummelt

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**Managing Program  
Officer**

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## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-586 Faculty Early Career Development Program.

## BUDGET

**A. Senior Personnel**

Senior Personnel Count	1.00
Senior Personnel Calendar Months	1.80
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$24,308
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	1.00
Graduate Students Amount	\$15,594
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$39,902
<b>C. Fringe Benefits</b>	\$5,469
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$45,371
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$1,500
International	\$0
<b>F. Participant Support Costs</b>	



Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$7,126
<i>Total Other Direct Costs (G)</i>	\$7,126
<b>H. Total Direct Costs (A Through G)</b>	<b>\$53,997</b>
<b>I. Indirect Costs*</b>	<b>\$27,888</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$81,885</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$81,885</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	59.5000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2339524

**Managing Division Abbreviation:** IIS

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 02/15/2024

**Amendment Number:** 000

**Proposal Number:** 2339524

**Amendment Description:**

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

### AWARD INFORMATION

**Award Number (FAIN):** 2339524

**Award Instrument:** Continuing Grant

**Award Date:** 02/15/2024

**Award Period of Performance:** Start Date: 02/15/2024 End Date: 01/31/2029

**Project Title:** CAREER: Geometric Deep Learning to Facilitate Algorithmic and Scientific Advances in Therapeutics

**Managing Division Abbreviation:** IIS

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 22-586 Faculty Early Career Development Program

**Assistance Listing Number(s) and Name(s):** 47.070 Computer and Information Science and Engineering (Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$186,822  
**Total Intended Award Amount:** \$566,128  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$186,822  
**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$141,532
2026	\$90,580
2027	\$90,580
2028	\$56,614

## PROJECT PERSONNEL

**Principal Investigator:**

**Email:**

**Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE

## NSF CONTACT INFORMATION

**Managing Grants Official**  
(Primary Contact)  
**Name:** Tianay M. Robinson  
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**Awarding Official**  
**Name:** Tianay M. Robinson  
**Email:** trobinso@nsf.gov

**Managing Program Officer**  
**Name:** Christopher C Yang  
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**Phone:** (703) 292-8111

## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-586 Faculty Early Career Development Program.

## BUDGET

**A. Senior Personnel**

Senior Personnel Count	5.00
Senior Personnel Calendar Months	3.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$14,145
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	5.00
Graduate Students Amount	\$81,461
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$95,606
<b>C. Fringe Benefits</b>	\$2,998
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$98,604
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$577
International	\$1,072

<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$13,912
<i>Total Other Direct Costs (G)</i>	\$13,912
<b>H. Total Direct Costs (A Through G)</b>	<b>\$114,165</b>
<b>I. Indirect Costs*</b>	<b>\$72,657</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$186,822</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$186,822</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

The indirect cost rate(s) for this award is/are not available. These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2339621

**Managing Division Abbreviation:** DEB

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 05/31/2024

**Amendment Number:** 000

**Proposal Number:** 2339621

**Amendment Description:**

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

### AWARD INFORMATION

**Award Number (FAIN):** 2339621

**Award Instrument:** Continuing Grant

**Award Date:** 05/31/2024

**Award Period of Performance:** Start Date: 06/01/2024 End Date: 05/31/2029

**Project Title:** CAREER: Microbial Mediation of Temperate Tree Responses to Climate Change

**Managing Division Abbreviation:** DEB

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 22-586 Faculty Early Career Development Program

**Assistance Listing Number(s) and Name(s):** 47.074 Biological Sciences (Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$311,154



**Total Intended Award Amount:** \$1,198,253  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$311,154  
**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$202,934
2026	\$684,165

## PROJECT PERSONNEL

**Principal Investigator:**

**Email:**

**Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE

## NSF CONTACT INFORMATION

**Managing Grants Official**  
(Primary Contact)

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**Awarding Official**

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**Managing Program Officer**

**Name:** Kirsten Schwarz

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## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-586 Faculty Early Career Development Program.

## BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	1.00

Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$12,684
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	1.00
Other Professionals Calendar Months	12.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$48,000
<b>Graduate Students</b>	
Graduate Students Count	0.00
Graduate Students Amount	\$0
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$60,684
<b>C. Fringe Benefits</b>	\$22,551
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$83,235
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$5,295
International	\$0
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0

Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$43,585
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$52,000
<i>Total Other Direct Costs (G)</i>	\$95,585
<b>H. Total Direct Costs (A Through G)</b>	<b>\$184,115</b>
<b>I. Indirect Costs*</b>	<b>\$127,039</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$311,154</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$311,154</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2339913

**Managing Division Abbreviation:** DMR

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 01/02/2024

**Amendment Number:** 000

**Proposal Number:** 2339913

**Amendment Description:**

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

### AWARD INFORMATION

**Award Number (FAIN):** 2339913

**Award Instrument:** Continuing Grant

**Award Date:** 01/02/2024

**Award Period of Performance:** Start Date: 01/15/2024 End Date: 12/31/2028

**Project Title:** CAREER: Epitaxial stabilization of non-perovskite oxide quantum materials

**Managing Division Abbreviation:** DMR

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 22-586 Faculty Early Career Development Program

**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences  
(Predominant source of funding for SEFA reporting)

**FUNDING INFORMATION**

**Amount Obligated by this Amendment:** \$138,414  
**Total Intended Award Amount:** \$786,598  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$138,414  
**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

<b>Fiscal Year</b>	<b>Increment Amount</b>
2025	\$207,756
2026	\$190,109
2027	\$152,472
2028	\$97,847

**PROJECT PERSONNEL**

**Principal Investigator:** [REDACTED]

**Email:** [REDACTED]

**Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE

**NSF CONTACT INFORMATION****Managing Grants Official**

(Primary Contact)

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Gebremedhin

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**Awarding Official**

**Name:** Elizabeth Gebremedhin

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**Managing Program Officer**

**Name:** Tomasz Durakiewicz

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**Phone:** (703) 292-4892

**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-586 Faculty Early Career Development Program.

**BUDGET**

<b>A. Senior Personnel</b>	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.33
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$5,559
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	1.00
Graduate Students Amount	\$44,518
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$50,077
<b>C. Fringe Benefits</b>	\$1,195
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$51,272
<b>D. Equipment</b>	\$0



<b>E. Travel</b>	
Domestic	\$2,500
International	\$0
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$4,000
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	1.00
<i>Total Participant Costs (F)</i>	\$4,000
<b>G. Other Direct Costs</b>	
Materials Supplies	\$5,180
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$28,576
<i>Total Other Direct Costs (G)</i>	\$33,756
<b>H. Total Direct Costs (A Through G)</b>	<b>\$91,528</b>
<b>I. Indirect Costs*</b>	<b>\$46,886</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$138,414</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$138,414</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2401057

**Managing Division Abbreviation:** IOS

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 07/12/2024

**Amendment Number:** 000

**Proposal Number:** 2401057

**Amendment Description:**

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/02/2024.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

### AWARD INFORMATION

**Award Number (FAIN):** 2401057

**Award Instrument:** Continuing Grant

**Award Date:** 07/12/2024

**Award Period of Performance:** Start Date: 07/15/2024 End Date: 06/30/2027

**Project Title:** Mechanisms for the establishment of polarity during whole-body regeneration

**Managing Division Abbreviation:** IOS

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 23-547 Division of Integrative Organismal Systems Core Programs

**Assistance Listing Number(s) and Name(s):** 47.074 Biological Sciences (Predominant source of funding for SEFA reporting)

**FUNDING INFORMATION**

**Amount Obligated by this Amendment:** \$400,000  
**Total Intended Award Amount:** \$1,000,000  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$400,000  
**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$300,000
2026	\$300,000

**PROJECT PERSONNEL**

**Principal Investigator:**

[REDACTED]

**Email:**

[REDACTED]

**Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE

**NSF CONTACT INFORMATION**

**Managing Grants Official**  
(Primary Contact)

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**Awarding Official**

**Name:** Vanessa L. Richardson

**Email:** vlrichar@nsf.gov

**Managing Program Officer**

**Name:** Anna K. Allen

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**Phone:** (703) 292-8011

**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 23-547 Division of Integrative Organismal Systems Core Programs.

**BUDGET****A. Senior Personnel**

Senior Personnel Count	1.00
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Senior Personnel Calendar Months	1.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$23,467
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	12.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$67,600
<b>Other Professionals</b>	
Other Professionals Count	1.00
Other Professionals Calendar Months	9.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$37,457
<b>Graduate Students</b>	
Graduate Students Count	0.00
Graduate Students Amount	\$0
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$128,524
<b>C. Fringe Benefits</b>	\$35,911
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$164,435
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$1,100
International	\$0
<b>F. Participant Support Costs</b>	

Participant Support Costs Stipends	\$1,100
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$200
Total Number of Participants	5.00
<i>Total Participant Costs (F)</i>	\$1,300
<b>G. Other Direct Costs</b>	
Materials Supplies	\$29,673
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$40,709
<i>Total Other Direct Costs (G)</i>	\$70,382
<b>H. Total Direct Costs (A Through G)</b>	<b>\$237,217</b>
<b>I. Indirect Costs*</b>	<b>\$162,783</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$400,000</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$400,000</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2401390

**Managing Division Abbreviation:** ECCS

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 07/10/2024

**Amendment Number:** 000

**Proposal Number:** 2401390

**Amendment Description:**

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

### AWARD INFORMATION

**Award Number (FAIN):** 2401390

**Award Instrument:** Standard Grant

**Award Date:** 07/10/2024

**Award Period of Performance:** Start Date: 07/01/2024 End Date: 06/30/2027

**Project Title:** Collaborative Research: Stochastic Nonlinear Control and Learning via Spectral Dynamics Embedding

**Managing Division Abbreviation:** ECCS

**Research and Development Award:** Yes

**Funding Opportunity:** PD 18-7607 Energy, Power, Control, and Networks

**Assistance Listing Number(s) and Name(s):** 47.041 Engineering Grants (Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION



**Amount Obligated by this Amendment:** \$300,000  
**Total Intended Award Amount:** \$300,000  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$300,000  
**Expenditure Limitation:** Not Applicable

## PROJECT PERSONNEL

**Principal Investigator:** [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

## COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2401390	Y	[REDACTED]	Harvard College, President & Fellows of Harvard University
2401391	N	[REDACTED]	GA Tech Research Corporation, GA Institute of Technology

## NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact)	Awarding Official	Managing Program Officer
<b>Name:</b> Malia Williams <b>Email:</b> malwilli@nsf.gov <b>Phone:</b> (703) 292-2290	<b>Name:</b> Willis Phan <b>Email:</b> wiphan@nsf.gov	<b>Name:</b> Anthony Kuh <b>Email:</b> akuh@nsf.gov <b>Phone:</b> (703) 292-4714

## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

## BUDGET

<b>A. Senior Personnel</b>	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.60
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$16,616
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	3.00
Graduate Students Amount	\$121,003
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$137,619
<b>C. Fringe Benefits</b>	\$3,572
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$141,191
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$6,600

International	\$0
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$50,232
<i>Total Other Direct Costs (G)</i>	\$50,232
<b>H. Total Direct Costs (A Through G)</b>	<b>\$198,023</b>
<b>I. Indirect Costs*</b>	<b>\$101,977</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$300,000</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$300,000</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2401498

**Managing Division Abbreviation:** DMS

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 08/08/2024

**Amendment Number:** 000

**Proposal Number:** 2401498

**Amendment Description:**

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/30/2024.

Fiscal Year 2024 and 2025 budgets have been combined in this award. It is still the grantees responsibility to submit an annual project report in accordance with the award terms and conditions.

### AWARD INFORMATION

**Award Number (FAIN):** 2401498

**Award Instrument:** Continuing Grant

**Award Date:** 08/08/2024

**Award Period of Performance:** Start Date: 09/01/2024 End Date: 08/31/2027

**Project Title:** Birational Geometry, Hodge Theory and Singularities

**Managing Division Abbreviation:** DMS

**Research and Development Award:** Yes

**Funding Opportunity:** PD 20-1264 Algebra and Number Theory

**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences  
(Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$222,345  
**Total Intended Award Amount:** \$335,000  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$222,345  
**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2026	\$112,655

## PROJECT PERSONNEL

**Principal Investigator:**

**Email:**

**Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE

## NSF CONTACT INFORMATION

**Managing Grants Official**

(Primary Contact)

**Name:** Lynda Kummelt

**Email:** lkummelt@nsf.gov

**Phone:** (703) 292-7721

**Awarding Official**

**Name:** Lynda Kummelt

**Email:** lkummelt@nsf.gov

**Managing Program Officer**

**Name:** James M. Douglass

**Email:** mdouglas@nsf.gov

**Phone:** (703) 292-2467

## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

## BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	2.00
Senior Personnel Academic Months	0.00

Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$60,000
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	2.00
Graduate Students Amount	\$38,245
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$98,245
<b>C. Fringe Benefits</b>	
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$111,565
<b>D. Equipment</b>	
<b>E. Travel</b>	
Domestic	\$10,000
International	\$10,000
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0



Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
<b>H. Total Direct Costs (A Through G)</b>	<b>\$131,565</b>
<b>I. Indirect Costs*</b>	<b>\$90,780</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$222,345</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$222,345</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2401907

**Managing Division Abbreviation:** CMMI

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 08/15/2024

**Amendment Number:** 000

**Proposal Number:** 2401907

**Amendment Description:**

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

NSF anticipates holding joint NRI/FRR annual Principal Investigator (PI) meetings for research investigators, industrial partners, and sponsoring agency representatives. These meetings will be highlighted by technology demonstrations and progress reports, and will provide a forum for all to discuss best practices, concerns, and high-risk, high-return ideas and challenges pertinent to robots. All FRR PIs are welcomed and encouraged to participate in these meetings.

### AWARD INFORMATION

**Award Number (FAIN):** 2401907

**Award Instrument:** Standard Grant

**Award Date:** 08/15/2024

**Award Period of Performance:** Start Date: 01/01/2025 End Date: 12/31/2027

**Project Title:** Collaborative Research: Climbing and Object Grasping Through Tunable Capillary Adhesion in an Insect-Scale Robot

**Managing Division Abbreviation:** CMMI

**Research and Development Award:** Yes

**Funding Opportunity:** PD 20-144Y Foundational Research in Robotics

**Assistance Listing Number(s) and Name(s):** 47.041 Engineering Grants (Predominant source of funding for SEFA reporting)

**FUNDING INFORMATION**

**Amount Obligated by this Amendment:** \$325,497  
**Total Intended Award Amount:** \$325,497  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$325,497  
**Expenditure Limitation:** Not Applicable

**PROJECT PERSONNEL**

**Principal Investigator:** [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**COLLABORATIVE INFORMATION**

Proposal ID	Lead	PI Name	Organization
2401906	Y	[REDACTED]	Massachusetts Institute of Technology
2401907	N	[REDACTED]	Harvard College, President & Fellows of Harvard University

**NSF CONTACT INFORMATION**

Managing Grants Official (Primary Contact)	Awarding Official	Managing Program Officer
<b>Name:</b> Tamika Lloyd <b>Email:</b> tlloyd@nsf.gov <b>Phone:</b>	<b>Name:</b> Willis Phan <b>Email:</b> wiphan@nsf.gov	<b>Name:</b> Jordan M. Berg <b>Email:</b> jberg@nsf.gov <b>Phone:</b> (703) 292-5365

**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

**BUDGET****A. Senior Personnel**

Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.30
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$9,263

**B. Other Personnel****Post Doctoral Scholars**

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0

**Other Professionals**

Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0

**Graduate Students**

Graduate Students Count	3.00
Graduate Students Amount	\$139,307

**Undergraduate Students**

Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

**Secretarial - Clerical**

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0

**Other**

Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$148,570

**C. Fringe Benefits**

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$150,562
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**D. Equipment**

	\$0
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<b>E. Travel</b>	
Domestic	\$0
International	\$0
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$6,000
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$60,907
<i>Total Other Direct Costs (G)</i>	\$66,907
<b>H. Total Direct Costs (A Through G)</b>	<b>\$217,469</b>
<b>I. Indirect Costs*</b>	<b>\$108,028</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$325,497</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$325,497</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2402464

**Managing Division Abbreviation:** EAR

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 07/22/2024

**Amendment Number:** 000

**Proposal Number:** 2402464

**Amendment Description:**

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above .

### AWARD INFORMATION

**Award Number (FAIN):** 2402464

**Award Instrument:** Standard Grant

**Award Date:** 07/22/2024

**Award Period of Performance:** Start Date: 09/01/2024 End Date: 08/31/2027

**Project Title:** Collaborative Research: PYRITE OXIDATION AND THE ENSUING TRIPLE O ISOTOPE COMPOSITION OF SULFATE

**Managing Division Abbreviation:** EAR

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 22-578 Geobiology and Low-Temperature Geochemistry (GG)

**Assistance Listing Number(s) and Name(s):** 47.050 Geosciences (Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION



**Amount Obligated by this Amendment:** \$395,871  
**Total Intended Award Amount:** \$395,871  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$395,871  
**Expenditure Limitation:** Not Applicable

## PROJECT PERSONNEL

**Principal Investigator:** [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

## COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2402464	Y	[REDACTED]	Harvard College, President & Fellows of Harvard University
2402465	N	[REDACTED]	Montana State University

## NSF CONTACT INFORMATION

### Managing Grants

#### Official (Primary

Contact)

**Name:** Angela A.  
Turner

**Email:**  
aturner@nsf.gov

**Phone:** (703) 292-7524

#### Awarding Official

**Name:** Angela A. Turner  
**Email:** aturner@nsf.gov

#### Managing Program Officer

**Name:** Alberto Perez-Huerta  
**Email:** aperezhu@nsf.gov  
**Phone:**

## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-578 Geobiology and Low-Temperature Geochemistry (GG).

**BUDGET****A. Senior Personnel**

Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.75
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$18,375

**B. Other Personnel****Post Doctoral Scholars**

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0

**Other Professionals**

Other Professionals Count	3.00
Other Professionals Calendar Months	3.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$22,551

**Graduate Students**

Graduate Students Count	36.00
Graduate Students Amount	\$135,567

**Undergraduate Students**

Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

**Secretarial - Clerical**

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0

**Other**

Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$176,493

**C. Fringe Benefits**

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$8,799
	\$185,292

**D. Equipment**

	\$0
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<b>E. Travel</b>	
Domestic	\$6,777
International	\$4,000
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$22,347
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$26,749
<i>Total Other Direct Costs (G)</i>	\$49,096
<b>H. Total Direct Costs (A Through G)</b>	<b>\$245,165</b>
<b>I. Indirect Costs*</b>	<b>\$150,706</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$395,871</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$395,871</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2406110

**Managing Division Abbreviation:** AST

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 08/29/2024

**Amendment Number:** 000

**Proposal Number:** 2406110

**Amendment Description:**

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

### AWARD INFORMATION

**Award Number (FAIN):** 2406110

**Award Instrument:** Standard Grant

**Award Date:** 08/29/2024

**Award Period of Performance:** Start Date: 09/01/2024 End Date: 08/31/2027

**Project Title:** CDS&E: Enabling Population Studies of Supernovae in the Era of Vera Rubin via Simulated-based Inference

**Managing Division Abbreviation:** AST

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 22-624 Astronomy and Astrophysics Research Grants

**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences  
(Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$436,310  
**Total Intended Award Amount:** \$436,310  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$436,310  
**Expenditure Limitation:** Not Applicable

## PROJECT PERSONNEL

**Principal Investigator:**

**Email:**

**Organization:** PRESIDENT  
 AND FELLOWS OF  
 HARVARD COLLEGE

## NSF CONTACT INFORMATION

### Managing Grants Official

(Primary Contact)

**Name:** Elizabeth

Gebremedhin

**Email:** egebreme@nsf.gov

**Phone:** (703) 292-4444

### Awarding Official

**Name:** Aprile N Roberson

**Email:** aroberson@nsf.gov

### Managing Program Officer

**Name:** Glen I Langston

**Email:** glangsto@nsf.gov

**Phone:** (703) 292-4937

## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-624 Astronomy and Astrophysics Research Grants.

## BUDGET

<b>A. Senior Personnel</b>	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.36
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$5,519

<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	3.00
Post Doctoral Calendar Months	30.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$183,512
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	0.00
Graduate Students Amount	\$0
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$189,031
<b>C. Fringe Benefits</b>	\$40,641
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$229,672
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$15,000
International	\$0
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0



Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$2,500
Publication Costs	\$6,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$5,000
<i>Total Other Direct Costs (G)</i>	\$13,500
<b>H. Total Direct Costs (A Through G)</b>	<b>\$258,172</b>
<b>I. Indirect Costs*</b>	<b>\$178,138</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$436,310</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$436,310</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2406905

**Managing Division Abbreviation:** DMS

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 08/07/2024

**Amendment Number:** 000

**Proposal Number:** 2406905

**Amendment Description:**

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/11/2024.

Fiscal Year 2024 and 2025 budgets have been combined in this award. It is still the grantees responsibility to submit an annual project report in accordance with the award terms and conditions.

### AWARD INFORMATION

**Award Number (FAIN):** 2406905

**Award Instrument:** Continuing Grant

**Award Date:** 08/07/2024

**Award Period of Performance:** Start Date: 08/15/2024 End Date: 07/31/2027

**Project Title:** Towards Geometry-Informed Machine Learning: A Comprehensive Framework for Recognizing and Leveraging Heterogeneous Geometric Structure in Data

**Managing Division Abbreviation:** DMS

**Research and Development Award:** Yes

**Funding Opportunity:** PD 16-1266 Applied Mathematics

**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences  
(Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$120,000  
**Total Intended Award Amount:** \$180,000  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$120,000  
**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2026	\$60,000

## PROJECT PERSONNEL

**Principal Investigator:**

**Email:**

**Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE

## NSF CONTACT INFORMATION

**Managing Grants Official**

(Primary Contact)

**Name:** Lynda Kummelt

**Email:** lkummelt@nsf.gov

**Phone:** (703) 292-7721

**Awarding Official**

**Name:** Lynda Kummelt

**Email:** lkummelt@nsf.gov

**Managing Program Officer**

**Name:** Stacey Levine

**Email:** slevine@nsf.gov

**Phone:** (703) 292-2948

## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

## BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	0.50
Senior Personnel Academic Months	0.00

Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$9,480
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	2.00
Graduate Students Amount	\$44,569
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$54,049
<b>C. Fringe Benefits</b>	
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$56,153
<b>D. Equipment</b>	
	\$0
<b>E. Travel</b>	
Domestic	\$4,000
International	\$0
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0

Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$18,341
<i>Total Other Direct Costs (G)</i>	\$18,341
<b>H. Total Direct Costs (A Through G)</b>	<b>\$78,494</b>
<b>I. Indirect Costs*</b>	<b>\$41,506</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	\$120,000
<b>K. Fees</b>	\$0
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$120,000</b>
<b>M. Cost Sharing Proposed Level</b>	\$0

\*Indirect Cost Rates

The indirect cost rate(s) for this award is/are not available. These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2407215

**Managing Division Abbreviation:** AST

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 08/05/2024

**Amendment Number:** 000

**Proposal Number:** 2407215

**Amendment Description:**

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

### AWARD INFORMATION

**Award Number (FAIN):** 2407215

**Award Instrument:** Standard Grant

**Award Date:** 08/05/2024

**Award Period of Performance:** Start Date: 08/15/2024 End Date: 07/31/2027

**Project Title:** SMA-SPEC: A Legacy Spectral Line Survey of Protoplanetary Disks

**Managing Division Abbreviation:** AST

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 22-624 Astronomy and Astrophysics Research Grants

**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences  
(Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$522,928



**Total Intended Award Amount:** \$522,928  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$522,928  
**Expenditure Limitation:** Not Applicable

## PROJECT PERSONNEL

**Principal Investigator:** [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

## NSF CONTACT INFORMATION

<b>Managing Grants Official</b> (Primary Contact) <b>Name:</b> Elizabeth Gebremedhin <b>Email:</b> egebreme@nsf.gov <b>Phone:</b> (703) 292-4444	<b>Awarding Official</b> <b>Name:</b> Elizabeth Gebremedhin <b>Email:</b> egebreme@nsf.gov	<b>Managing Program Officer</b> <b>Name:</b> Jacqueline Keane <b>Email:</b> jkeane@nsf.gov <b>Phone:</b> (703) 292-8123
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## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-624 Astronomy and Astrophysics Research Grants.

## BUDGET

<b>A. Senior Personnel</b>	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	3.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$95,590
<b>B. Other Personnel</b>	

<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	3.00
Graduate Students Amount	\$141,033
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$236,623
<b>C. Fringe Benefits</b>	\$20,552
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$257,175
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$6,936
International	\$0
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00

<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$0
Publication Costs	\$8,100
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$62,892
<i>Total Other Direct Costs (G)</i>	\$70,992
<b>H. Total Direct Costs (A Through G)</b>	<b>\$335,103</b>
<b>I. Indirect Costs*</b>	<b>\$187,825</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$522,928</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$522,928</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

<b>Item Name</b>	<b>Indirect Cost Rate</b>
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2407727

**Managing Division**  
**Abbreviation:** ECCS

**Amendment Number:** 001

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366  
**Official Recipient Email Address:** [REDACTED]  
**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** Other Admin No Fund Actions  
**Amendment Date:** 07/01/2024  
**Amendment Number:** 001  
**Proposal Number:** Not Applicable  
**Amendment Description:**

The purpose of this amendment is to:

- Change the project title to read NSF-SNSF: Lithium niobate based terahertz systems: fundamentals and applications..

Except as modified by this amendment, the award conditions remain unchanged.

### PROJECT PERSONNEL

**Principal Investigator:**

[REDACTED]

**Email:**

[REDACTED]

**Organization:** PRESIDENT AND  
FELLOWS OF HARVARD  
COLLEGE

### NSF CONTACT INFORMATION

**Managing Grants Official**  
(Primary Contact)  
**Name:** Malia Williams  
**Email:** malwilli@nsf.gov  
**Phone:** (703) 292-2290

**Awarding Official**  
**Name:** Malia Williams  
**Email:** malwilli@nsf.gov

**Managing Program Officer**  
**Name:** Dominique M. Dagenais  
**Email:** ddagenai@nsf.gov  
**Phone:** (703) 292-2980

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2407727

**Managing Division Abbreviation:** ECCS

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 06/13/2024

**Amendment Number:** 000

**Proposal Number:** 2407727

**Amendment Description:**

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

### AWARD INFORMATION

**Award Number (FAIN):** 2407727

**Award Instrument:** Standard Grant

**Award Date:** 06/13/2024

**Award Period of Performance:** Start Date: 07/01/2024 End Date: 06/30/2027

**Project Title:** NSF-SNSF. Lithium niobate based terahertz systems: fundamentals and applications.

**Managing Division Abbreviation:** ECCS

**Research and Development Award:** Yes

**Funding Opportunity:** PD 18-1517 Electronics, Photonics and Magnetic Devices

**Assistance Listing Number(s) and Name(s):** 47.041 Engineering Grants (Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$450,000

**Total Intended Award Amount:** \$450,000  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$450,000  
**Expenditure Limitation:** Not Applicable

## PROJECT PERSONNEL

**Principal Investigator:**

**Email:**

**Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE

## NSF CONTACT INFORMATION

### Managing Grants Official

(Primary Contact)

**Name:** Malia Williams

**Email:** malwilli@nsf.gov

**Phone:** (703) 292-2290

### Awarding Official

**Name:** Malia Williams

**Email:** malwilli@nsf.gov

### Managing Program Officer

**Name:** Dominique M. Dagenais

**Email:** ddagenai@nsf.gov

**Phone:** (703) 292-2980

## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

## BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00



Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	3.00
Graduate Students Amount	\$115,241
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$115,241
<b>C. Fringe Benefits</b>	\$0
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$115,241
<b>D. Equipment</b>	\$75,000
<b>E. Travel</b>	
Domestic	\$0
International	\$15,000
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	

Materials Supplies	\$16,144
Publication Costs	\$15,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$81,559
<i>Total Other Direct Costs (G)</i>	<i>\$112,703</i>
<b>H. Total Direct Costs (A Through G)</b>	<b>\$317,944</b>
<b>I. Indirect Costs*</b>	<b>\$132,056</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$450,000</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$450,000</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates

<b>Item Name</b>	<b>Indirect Cost Rate</b>
Modified Total Direct Costs	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2407922

**Managing Division Abbreviation:** AST

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 08/30/2024

**Amendment Number:** 000

**Proposal Number:** 2407922

**Amendment Description:**

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

### AWARD INFORMATION

**Award Number (FAIN):** 2407922

**Award Instrument:** Standard Grant

**Award Date:** 08/30/2024

**Award Period of Performance:** Start Date: 09/01/2024 End Date: 08/31/2028

**Project Title:** Collaborative Research: New Windows on the Dynamic Universe with the Vera C. Rubin Observatory, the InterPlanetary Network, and the International Gravitational Wave Network

**Managing Division Abbreviation:** AST

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 22-624 Astronomy and Astrophysics Research Grants

**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences  
(Predominant source of funding for SEFA reporting)

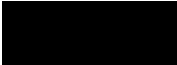

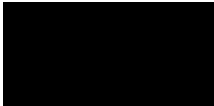
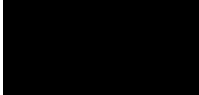
### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$484,024  
**Total Intended Award Amount:** \$484,024  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$484,024  
**Expenditure Limitation:** Not Applicable

#### PROJECT PERSONNEL

<b>Principal Investigator:</b> 	<b>Email:</b> 	<b>Organization:</b> PRESIDENT AND FELLOWS OF HARVARD COLLEGE
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#### COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2407921	Y		Louisiana State University
2407922	N		Harvard College, President & Fellows of Harvard University
2407923	N		University of Minnesota-Twin Cities
2407924	N		University of Maryland

#### NSF CONTACT INFORMATION

<b>Managing Grants Official (Primary Contact)</b> <b>Name:</b> Elizabeth Gebremedhin <b>Email:</b> egebreme@nsf.gov <b>Phone:</b> (703) 292-4444	<b>Awarding Official</b> <b>Name:</b> Elizabeth Gebremedhin <b>Email:</b> egebreme@nsf.gov	<b>Managing Program Officer</b> <b>Name:</b> Martin D. Still <b>Email:</b> mstill@nsf.gov <b>Phone:</b> (703) 292-4290
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#### GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended

(42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rte.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-624 Astronomy and Astrophysics Research Grants.

## BUDGET

<b>A. Senior Personnel</b>	
Senior Personnel Count	4.00
Senior Personnel Calendar Months	4.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$62,562
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	4.00
Graduate Students Amount	\$154,204
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$216,766
<b>C. Fringe Benefits</b>	\$13,451
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$230,217
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$20,000
International	\$3,000
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
<b>G. Other Direct Costs</b>	
Materials Supplies	\$2,500
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$51,862
<i>Total Other Direct Costs (G)</i>	\$54,362
<b>H. Total Direct Costs (A Through G)</b>	<b>\$307,579</b>
<b>I. Indirect Costs*</b>	<b>\$176,445</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$484,024</b>
<b>K. Fees</b>	<b>\$0</b>
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$484,024</b>
<b>M. Cost Sharing Proposed Level</b>	<b>\$0</b>

\*Indirect Cost Rates



Item Name	Indirect Cost Rate
MDTC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2408960

**Managing Division Abbreviation:** DMS

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** New Project

**Amendment Date:** 05/14/2024

**Amendment Number:** 000

**Proposal Number:** 2408960

**Amendment Description:**

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

The "Administration of NSF Conference or Group Travel Award Grant Conditions (FL 26)" in effect the date of this amendment are applicable. The FL 26 special award conditions can be found at: [https://www.nsf.gov/awards/managing/special\\_conditions.jsp](https://www.nsf.gov/awards/managing/special_conditions.jsp).

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

Costs of entertainment, amusement, diversion and social activities, and any costs directly associated with such activities (such as meals, lodging, rentals, transportation and gratuities) are unallowable.

When certain meals are an integral and necessary part of a conference or meeting (i.e., working meals where business is transacted), grant funds may be used for such meals. Grant funds may also be used to furnish a reasonable amount of coffee or soft drinks for conference or meeting participants and attendees during coffee breaks.

No NSF funds may be spent on meals or coffee breaks for intramural meetings of an organization or any of its components, including, but not limited to, laboratories, departments and centers.

**AWARD INFORMATION****Award Number (FAIN):** 2408960**Award Instrument:** Standard Grant**Award Date:** 05/14/2024**Award Period of Performance:** Start Date: 06/01/2024 End Date: 11/30/2025**Project Title:** Conference: A Celebration of Algebraic Combinatorics**Managing Division Abbreviation:** DMS**Research and Development Award:** Yes**Funding Opportunity:** NSF 21-541 Conferences and Workshops in the Mathematical Sciences**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences  
(Predominant source of funding for SEFA reporting)**FUNDING INFORMATION****Amount Obligated by this Amendment:** \$49,500**Total Intended Award Amount:** \$49,500**Total Approved Cost Share or Matching Amount:** \$0**Total Amount Obligated to Date:** \$49,500**Expenditure Limitation:** Not Applicable**PROJECT PERSONNEL****Principal Investigator:****Email:****Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE**NSF CONTACT INFORMATION****Managing Grants Official**

(Primary Contact)

**Name:** Lynda Kummelt**Email:** lkummelt@nsf.gov**Phone:** (703) 292-7721**Awarding Official****Name:** Lynda Kummelt**Email:** lkummelt@nsf.gov**Managing Program Officer****Name:** Stefaan Guido De  
Winter**Email:** sgdwint@nsf.gov**Phone:** (703) 292-2599**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-541 Conferences and Workshops in the Mathematical Sciences.

## BUDGET

<b>A. Senior Personnel</b>	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	0.00
Graduate Students Amount	\$0
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$0
<b>C. Fringe Benefits</b>	\$0

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$0
<b>D. Equipment</b>	\$0
<b>E. Travel</b>	
Domestic	\$17,000
International	\$8,000
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$16,000
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	20.00
<i>Total Participant Costs (F)</i>	\$16,000
<b>G. Other Direct Costs</b>	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
<b>H. Total Direct Costs (A Through G)</b>	<b>\$41,000</b>
<b>I. Indirect Costs*</b>	<b>\$8,500</b>
<b>J. Total Direct and Indirect Costs (H + I)</b>	<b>\$49,500</b>
<b>K. Fees</b>	\$0
<b>L. Total Amount of Request (J) OR (J + K)</b>	<b>\$49,500</b>
<b>M. Cost Sharing Proposed Level</b>	\$0

\*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	34.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

## NATIONAL SCIENCE FOUNDATION

### Award Notice

**Award Number (FAIN):** 2409404

**Managing Division Abbreviation:** PHY

**Amendment Number:** 000

### RECIPIENT INFORMATION

**Recipient (Legal Business Name):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

**Recipient Address:** 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

**Official Recipient Email Address:** [REDACTED]

**Unique Entity Identifier (UEI):** LN53LCFJFL45

### AMENDMENT INFORMATION

**Amendment Type:** Renewal

**Amendment Date:** 07/15/2024

**Amendment Number:** 000

**Proposal Number:** 2409404

**Amendment Description:**

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above as modified by revised budget dated 06/07/2024.

### AWARD INFORMATION

**Award Number (FAIN):** 2409404

**Award Instrument:** Continuing Grant

**Award Date:** 07/15/2024

**Award Period of Performance:** Start Date: 09/01/2024 End Date: 08/31/2027

**Project Title:** Quantum Simulation and Collisions with Ultracold Triatomic Molecules

**Managing Division Abbreviation:** PHY

**Research and Development Award:** Yes

**Funding Opportunity:** NSF 23-615 Division of Physics: Investigator-Initiated Research Projects

**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences  
(Predominant source of funding for SEFA reporting)

### FUNDING INFORMATION

**Amount Obligated by this Amendment:** \$366,058



**Total Intended Award Amount:** \$700,000  
**Total Approved Cost Share or Matching Amount:** \$0  
**Total Amount Obligated to Date:** \$366,058  
**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$165,819
2026	\$168,123

## PROJECT PERSONNEL

**Principal Investigator:** [REDACTED]

**Email:** [REDACTED]

**Organization:** PRESIDENT  
AND FELLOWS OF  
HARVARD COLLEGE

## NSF CONTACT INFORMATION

### Managing Grants Official

(Primary Contact)

**Name:** Pamela V. Conyers

**Email:** pconyers@nsf.gov

**Phone:** (703) 292-5329

### Awarding Official

**Name:** Pamela V. Conyers

**Email:** pconyers@nsf.gov

### Managing Program Officer

**Name:** Mark Kevin Beck

**Email:** mkbeck@nsf.gov

**Phone:** (703) 292-2983

## GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 23-615 Division of Physics: Investigator-Initiated Research Projects.

## BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.00

Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
<b>B. Other Personnel</b>	
<b>Post Doctoral Scholars</b>	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
<b>Other Professionals</b>	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
<b>Graduate Students</b>	
Graduate Students Count	2.00
Graduate Students Amount	\$73,990
<b>Undergraduate Students</b>	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
<b>Secretarial - Clerical</b>	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
<b>Other</b>	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$73,990
<b>C. Fringe Benefits</b>	\$0
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$73,990
<b>D. Equipment</b>	\$210,000
<b>E. Travel</b>	
Domestic	\$0
International	\$0
<b>F. Participant Support Costs</b>	
Participant Support Costs Stipends	\$0